

## CLAIMS

1. A hidden planar antenna module for a mobile phone, said module is provided with a base plate having a predetermined area, said base plate has on a surface thereof a first micro-strip section  
5 and a second micro-strip section being in relation with wavelengths of corresponding operation frequencies; the front ends of said micro-strip sections make an open circuit, the tailing ends of said micro-strip sections are connected to be used as a third micro-strip section of a feed line; said second micro-strip section connected  
10 with said tailing end of said first micro-strip section forms an open stub for adjusting frequency width and impedance matching; said module is characterized by that: said feed line is connected with micro-strips of a related circuit and a grounding line to form said antenna module with a coplanar wave guide effect.
- 15 2. The hidden planar antenna module for a mobile phone as defined in claim 1, wherein all said micro-strips of said antenna module are made as a flexible printed circuit (FPC).
3. The hidden planar antenna module for a mobile phone as defined in claim 1, wherein said related circuit is a matched circuit.
- 20 4. The hidden planar antenna module for a mobile phone as defined in claim 1, wherein said related circuit is an amplifying circuit.